FREHKEL, Ye,5

ZUBIN, A.M., kand.biolog.nauk; KUZNETSOV, B.A., pref., doktor biolog.
nauk; MCGMKOV, A.N., kand.sel'skokhoz.nauk; PURIM, Ya.A., kand.
tekhn.nauk; CHATSKIY, P.I., kand.tekhn.nauk; SERCEYEVA, T.A.,
kand.tekhn.nauk; BARYKIN, A.M., kand.tekhn.nauk; LOSEVA, N.L.,
kand.tekhn.nauk [deceased]; RUMYANTSEV, M.Z., starshiy nauchnyy
sotrudnik [deceased]; LAPIDUS, L.G., starshiy nauchnyy sotrudnik;
WRENKEL', Ye.B., kand.tekhn.nauk; KHMEL'NITSKAYA, Ye.G., mladshiy
nauchnyy sotrudnik; KATAYEV, V.P., kand.ekonom.nauk; KLYAGINA, N.I.,
red.; MARTYNOV, S.F., red.; MINAYEVA, T.M., red.; PLEMYANNIKOV,
M.N., red.; KNAKNIN, M.T., tekhn.red.

[Manual on fur and sheep pelt garment manufacture] Sprayochnik po mekhovoi i ovchinno-shubnoi promyshlennosti. Vol.2. [Raw materials. Semifinished and final products. Production technology] Syr'e. Polufabrikaty i izdeliis. Tekhnologiia proizvodstva. 1959. 631 p. (MIRA 13:3)

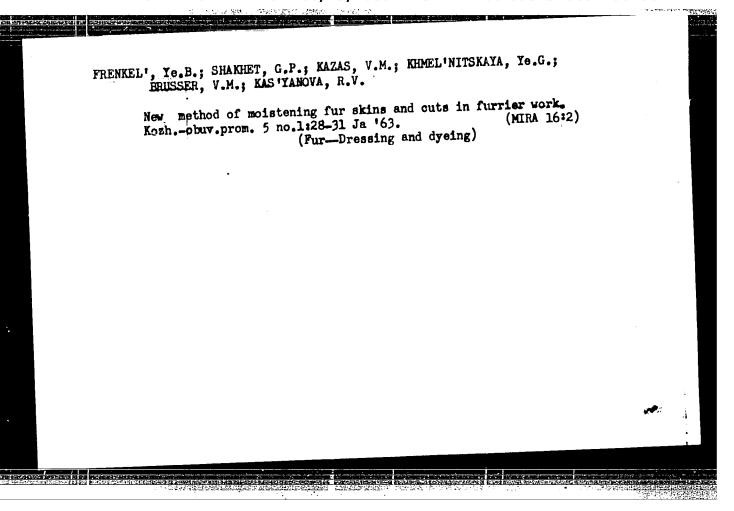
1. Nauchno-issledovatel skiy institut mekhovoy promyshlennosti (NIIMP) (for Rumyantsev, Lapidus).

(Hides and skins) (Fur-Handbooks, manuals, etc.)

FRENKEL', Ye.B., kand tekhn.nauk; KHMEL'NITSKAYA, Ye.G., mladshiy nauchnyy sotrudnik; KAS'YANOVA, R.V., teknolog

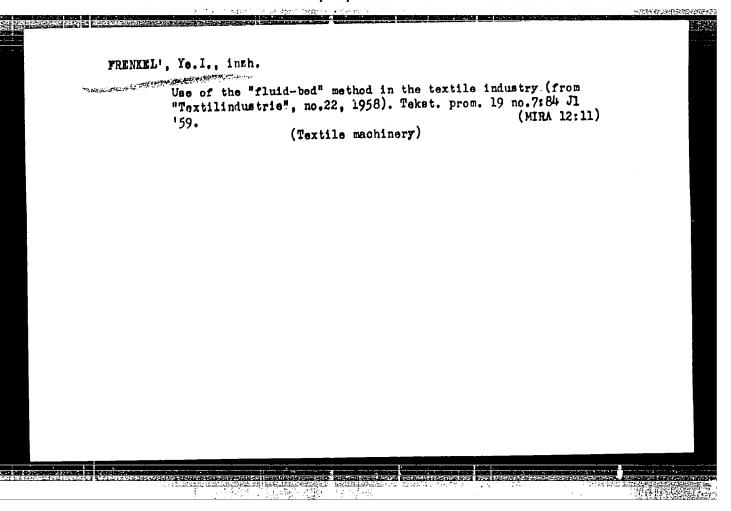
Using a steam-air mixture for moisturizing pelts and semifinished sections in furrier work. Nauch.-issl.trudy NIIMF no.10:65-75 '60. (MIRA 14:4)

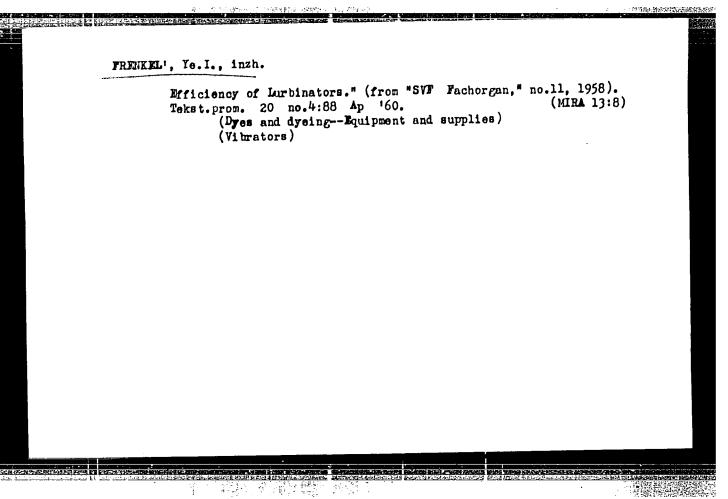
(Fur--Dressing and dyeing)



Use of infrared rays for rabbit palt drying during the dyeing of raw skins. Nauch. isal. troly filled no. 12:39-25 163.

Bandation-convection rathed for drying sheet palts us to the tag of gas radiators. Usia: 145-55 (C. 148-17:11)





Modern design of machines for yarn and fabric drying; review of foreign literature and patents. Tekst.prom. 23 no.1:85-87 Ja '63. (MIRA 16:2) 1. Zamestitel' glavnogo inzhenera Moskovskogo instituta promyshlennogo proyektirovaniya. (Drying apparatus—Textile fabrics)

FRENKEL', Yo. I.

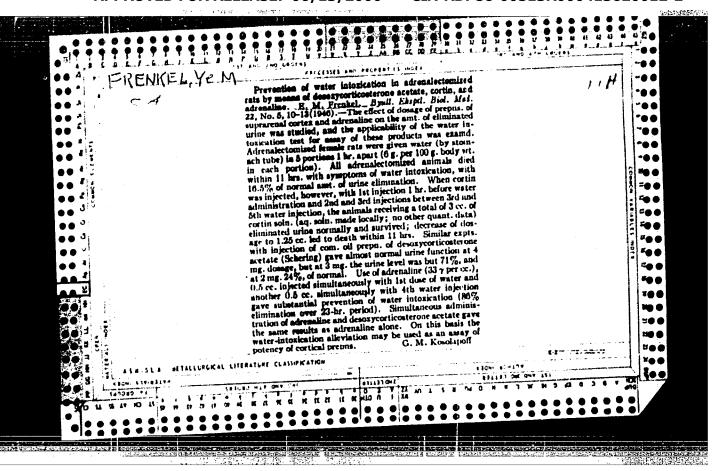
Machine for rubber covering. Tekst. prom. 23 no.3:92 Mr 163. (MIRA 16:4)

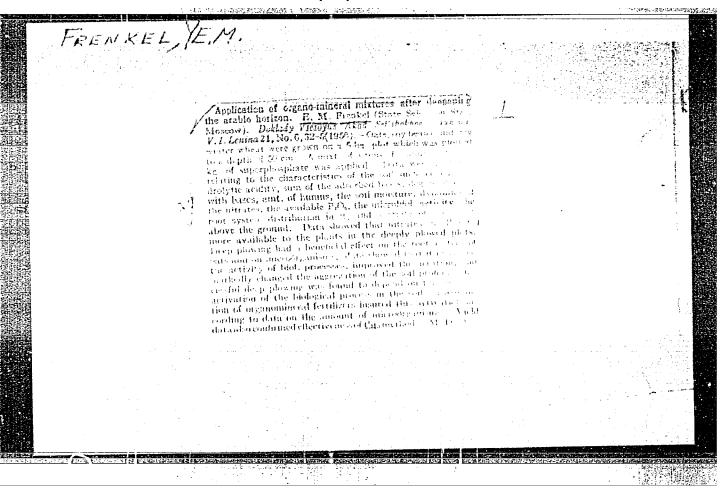
1. Zamestitel¹ glavnogo inzhenera Moskovskogo instituta promyshlennogo proyektirovaniya.

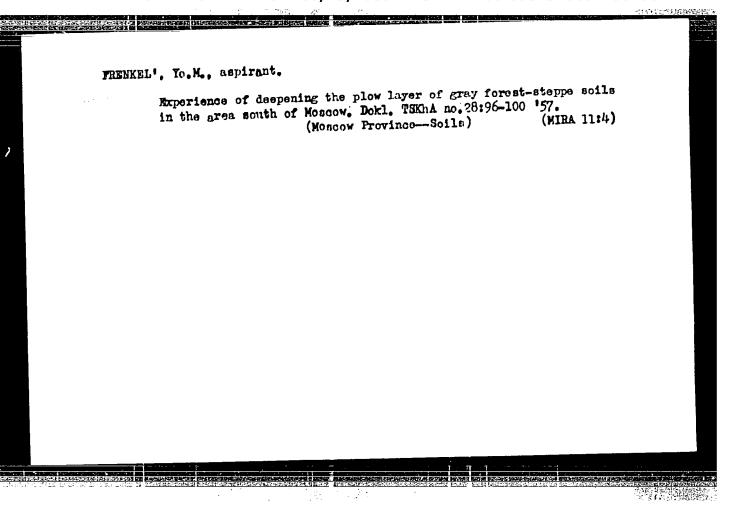
(Textile machinery)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620012-2"

3







FRENKEL', Ye. M.: Master Agric Sci (diss) -- "Increasing the depth of plowing on gray forest-steppe soils as one element in their cultivation". Moscow, 1958. 20 pp (Moscow Order of Lenin Agric Acad im K. A. Timiryazev), 110 copies (KL, No 6, 1959, 139)

Microbiological activity and biogenesis of gray forest-steppe soils in relation to the deepening of the plew layer [with summary to Mark 12:1]

in English]. Izv. TSKhA no.6:117-130 '58.
(Soil micro-organisms) (Forest soils)

FRENKEL, Yu.

USSR/Electronics - Resistive-capacitance filters

Card 1/1 Pub. 89 - 23/29

Authors : Frenkel!, Yu.

Title : RC-filters

Periodical: Radio 9, 51-53, Sep 1954

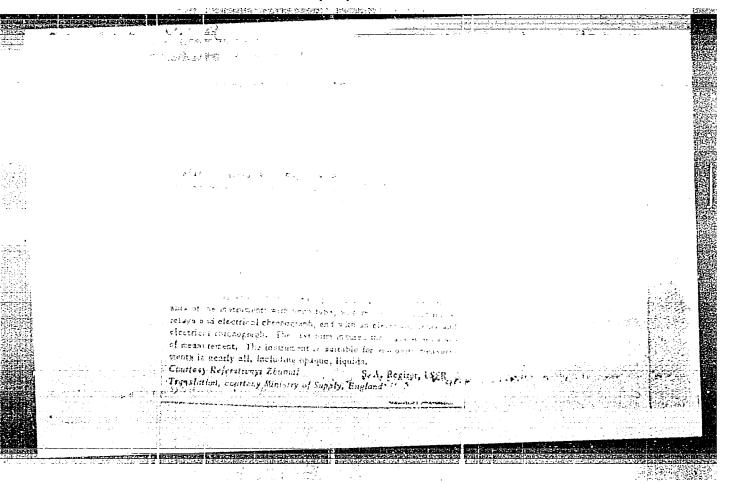
Abstract : Properties and advantages of RC (Resistive-Capacitance) in comparison with

inductance-capacitance filters are described. Formulas for computation of data and plotting the characteristic curves of the RC filters are includ-

ed. Circuit diagrams; table; graphs.

Institution: ...

Submitted : ...



FRANKSL, Y. Y., and MIURIAYLOV, A. H.

SUBSTICA - SECTION STATES

"Powdered polyamides as reinforcing agents for plastics," a paper presented at the 9th Congress on the Chemistry and Physics of High Polymers, 28 Jan-2 Feb 57, Moscow, Leather Research Inst.

B-3,08\$,395

G-2 RUMANIA / Organic Chemistry. Synthesis.

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 8358.

nuthor : Tanasoscu, I., Frankel, Z.

: Not given.

: On Acridones. XV. Condensation of 2,4-Benzal-Inst Title

dohyde with Chloro- and Bromobenzene.

Crig Pub: Studii si cercetari de chim., 1956, 4, No 3-4,

227-234.

Abstract: By condensation of 2,4-dinitro-benzaldehyde (1)

with chlorobonzene (II) and with bromobenzene were prepared 3-nitro-6-chlor- (III) and 3-nitro-6-brom-N-oxo-C-hydroxy-acridine (IV), with concurrent formation of 3-nitro-p-chloro- (V) and 3-nitro-p-brone-phenyl-anthranil (VI). Reduction of III and V with Zn-dust gave, respectively, 3-amino-6-chloracridono (VII) and 2,4-diamido-

Card 1/4

RUMANIA / Organic Chomistry. Synthosis.

0-2

Abs Jour: Rof Zhur-Khimiya, No 3, 1959, 8358.

Abstract: -4-chlorobenzophenone (VIII). Isomerization of V yielded 3-nitro-6-chloracridone (IX). To a solution of 5 g I in 50 ml II were added 25 ml concentrated H₂30₄ and after 24 hours the bottom layer was washed 2-3 times with 40-50 ml II, each time, and was then poured in 2 liters of water, filtered, the residue was dried, and by boiling twice with C₆H₆ there were isolated 3.5 g of III, while evaporation of C₆H₆ yielded 3.2 g of crude V, MP 2150 (from othyl acetate).

Card. 2/4

92

RUMANIA / Organic Chomistry. Synthosis. C-2

Abs Jour: Ref Zhur-Khimiya, No 3, 1939, 8358.

Abstract:

Off

Card 3/4

RUNIANIA / Organic Chemistry. Synthosis.

G-2

Abs Jour: Rof Zhur-Khimiya, No 3, 1959, 8358.

Abstract: IV was prepared analogously to III; VI the same as V. Cooling of filtrate obtained from a mixture of 0.5 g II / 50 nl water / 50 ml alcohol / 7.5 g Zn-dust / small crystal of CaClg, which had been boiled for 1.5 hours, yielded VII, MP 360° (from aqueous alcohol). Analogously was prepared the VIII, PP 198°; IX was obtained on adding NaNO2 to a solution of V in concentrated H2SO4. On boiling (2 hours) III in nitrobenzene, after filtering-off and precipitation with C6H6, crude IX was purified with 95% alcohol, glacial CH3COOH, and the C6H6. -- A. Marin.

Card 4/4

93

SILBERG, A.; HAMBURG, Erica; FRENKEL, Z.; CORMOS, L.

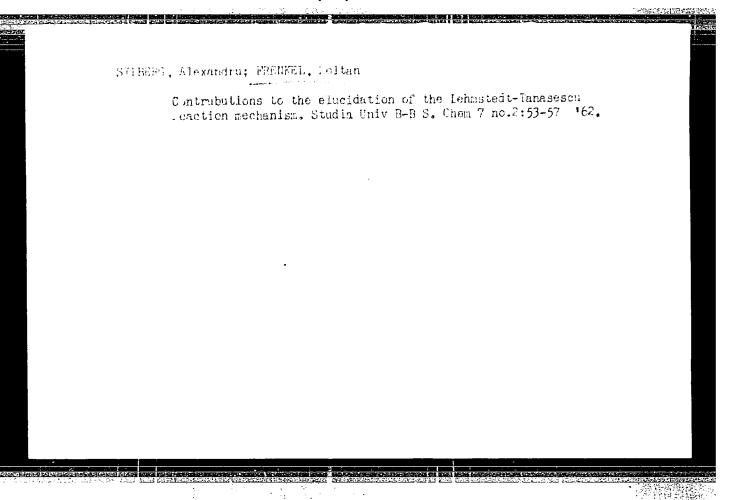
Contributions to the study of thiazoles. Pt. 7. Rev chimie Roum 9 no.3:215-228 Mr $^{1}64.$

1. Laboratory of Organic Chemistry, Faculty of Chemistry, Babes-Bolyai University, Cluj.

SIIBERG, Alexandru; FRENKEL, Zoltan; CORMOS, Livin

Contributions to the study of thiazoles. Pt. 3. Studia Univ B-B

S. Chem 7 no.2:23-30 162.



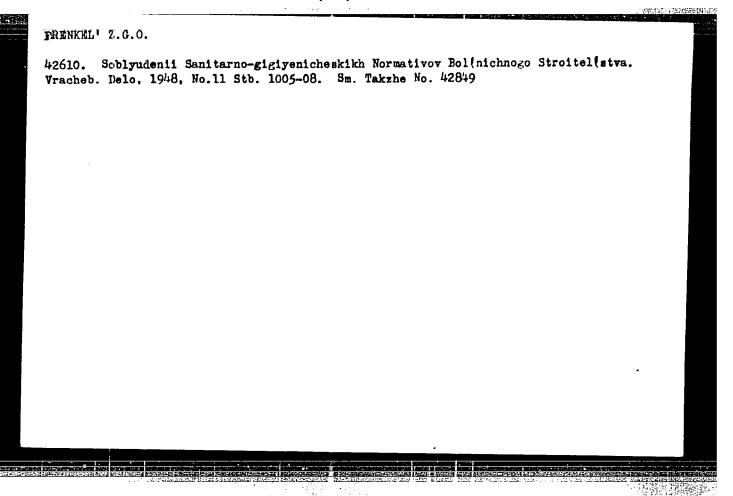
SILBERG, Alexandru; FRENKKI, Toltan; CORMOS, Liviu

Contributions to the study of thiazoles. Pt.4. Studia Univ.
B-B S Chem 8 no.12273-281 *63

1. **Babes- Bolyai** University, Cluj

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620012-2"

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FFENKELE, Z.G.

25195. FRENKELR, Z. G. Zadaghi Gigieny I Sanitarnogo Rlagoustroystva Pri Vossanovlenii I Razvitii Leningrada V M-Y Stalinskoy Pyatiletke. Trudy Leningr, San.-Gigien, Med. In-ta, T-1, 1949, S.5-32

SO: Letopis! No. 33, 1949

PHERKIL', Z. G.

77546. Zadachi Kommunalnoy Gugiyeny I Saniternogo Blagoustroystva Pri Vosstanovlenii,
Razvitii I Stroitel'stve Maselen: ykh Mest V Chetvertoy Pyatiletko. V SB:XII Vsesoyuz.
S"yezd Gigiyenistov, Epidemiologov, Mikrobiològov I Infektsionistov. T. I. M.,

S0: Letores Zhurnal'nykh Statey, Vol. 37, 149

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620012-2"

PRENKEL!, Z. G.	PA 48/49T60	
0916n/8m	Medicine - Social Hygiene "Theory of the Soviet Health Program," Prof Z. G. Frenkel', Hon Worker of Sci, Leningrad, 2t pp "Sov Zdravookhran" No 2 Favors Prof G. A. Batkis' article. Agrees with	•

FRENKEL', Z. G., Prof.

PA 170T65

USSR/Medicine - Societies, Medical Hygiene and Sanitation

Jun 50

"Activity of the Leningrad Branch of the All-Union Society of Hygienists in 1948 - 1949 and the Problems to be Met in 1950-1951," Prof Z. G. Frenkel', Act Mem, Acad Ked Sci USSR

"Gig i San" No 6, pp 52-55

Outlines important works presented and meetings held. In the future socialistic competition between the different sections of the Society should be set up, as well as competition between the Moscow, Leningrad, and Kiev branches of the

170T65

FRENKEL', Z.G.

S.A. Novosel'skii, an outstanding worker of Soviet sanitary statistics.

Gig. 1 san. 22 no.12:48-51 D '57 (MIRA 11:3)

1. Deystvitel'nyy chlen AMN SSSR.

(BIOGRAPHIES

Novoselsky, S.A. (Rus)

(SANITATION

in Russia, contribution of S.A. Novoselsky (Rus)

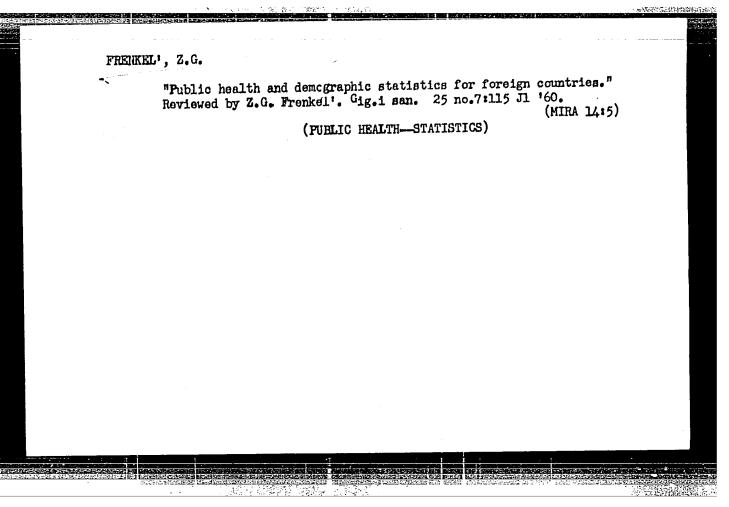
TOWARD 4 fifth revision of the Soviet nomenclature of diseases. Vrach. delo no.5:521 My '59. (MIRA 12:12)

1. Deystvitel'myy chlen AMN SSSR (for Frenkel'). (NOSOLOGY)

FRENKEL!, Z. G., prof.; MALIYENKO-PODVYSOTSKIY, A.G., kand. tekhn. nauk; KHODASEVICH, B.G., kand. sel'skokhoz. nauk

Concerning the article entitled *Objectives in safeguarding the sanitation of natural waters during the new phase in the development of the chemical industries by Professor S.N. Cherkinskii, corresponding member of the Academy of Medical Sciences of the U.S.S.R. Gig. i san. 24 no.5:62-63 My '59.

(INDUSTRIAL WASTES) (SEWAGE IRRIGATION)
(CHERKINSKII, S.N.)



FRENKEL', Z.G., prof.

Problem of medical expertise on work capacity and work arrangement for old age groups in connection with the lengthening of life-span. Trudy LIETIN no.4:5-10 160. (MIRA 16:2)

1. Deystvitel'nyy chlen AMN SSSR. (GERIATRICS) (ABILITY, INFLUENCE OF AGE ON)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620012-2"

FRENKEL', Z.G., prof. (Leningrad)

Problem of the useful employment of time by hospital patients; from a patient's notes. Sov. zdrav. 19 no.9:21-23 '60. (MIRA 13:11)

(HOSPITAL PATIENTS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620012-2"

FRENKEL', Z.G., prof.; SOBOLEVA, T.S., dotsent

"Statistical Yearbook of the German Democratic Republic, 1959".
Reviewed by Z.G.Frenkel', T.S.Soboleva. Gig. i san. no.5:116-118
My '61. (MIRA 16:4)

1. Deystvitel'nyy chlen AMN SSSR (for Frenkel').

(GERMANY, EAST—YEARBOOKS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620012-2"

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

FRENKEL', Z.G.; SOBOLEVA, T.S., dotsent (Leningrad)

Population of Finland as revealed by data on hygiene and demography. Sov. zdrav. 20 no.8:91-96 '61. (MIRA 15:1)

1. Deystvitel'nyy chlen AMN SSSR (for Frenkel'). (FINLAND_VITAL STATISTICS)

"Gonoise statistical yearbook of the Polish People's Republic."
Reviewed by Z.G.Frenkel', Gig. i san. 26 no.2:116 f '61.

1. Deystvitel'nyy chlen ANN SSSR.
(POLAND—YEARBOOKS)

FRENKEL', Z.G., prof.; SOBOLEVA, T.S., dotsent

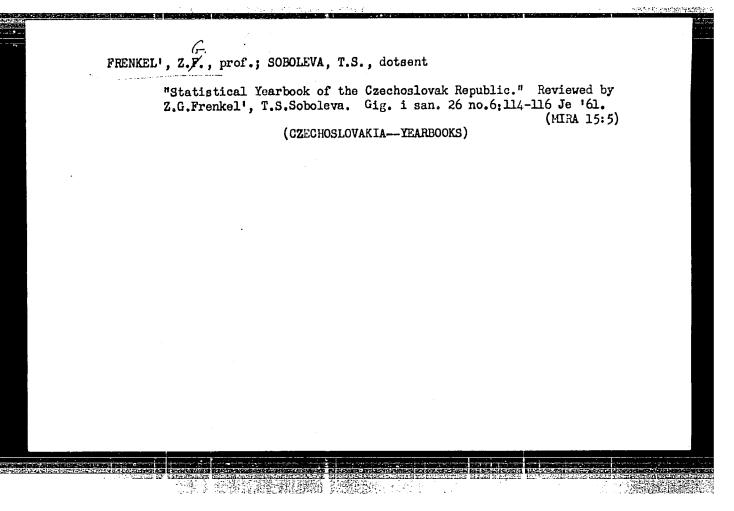
"Statistical Yearbook of the People's Republic of Bulgaria, 1959."

Reviewed by Z.G.Frenkel', T.S.Soboleva. Gig. i san. 26 no.5:118-120

My '61.

1. Deystvitel'nyy chlen AMN SSSR (for Frankel');

(BULGARIA--YEARBOOKS)



FRENKEL', Z.G., prof.; SOBOLEVA, T.S., dotsent

"Concise statistical collection of the Rumanian People's Ropublic."
Reviewed by Z.G.Frenkel', T.S.Soboleva. Gig. i san. 26 no.8:115-116
Ag '61. (RUMANIA—VITAL STATISTICS)

(RUMANIA—VITAL STATISTICS)

FRENKEL', Z.G., prof.

Survey of materials on the use of sewage waters in agriculture in the German Democratic Republic published in the journal "Zeitschrift fur die gesamte Higiene und ihre Grenzgebiete," 1962. Gig. i san. 28 no.7:104-107 Jl 163. (MIRA 17:1)

1. Deystvitelinyy chlen AMN SSSR.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620012-2"

FRENKEL', Z.G., prof. zasluzhennyy deyatel' nauki

Fundamental regularities of demographic processes in the present epoch. Trudy LIETIN no.16:11-90 '64.

(MIRA 19:1)

1. Deystvitel'nyy chlen AMN SSSR.

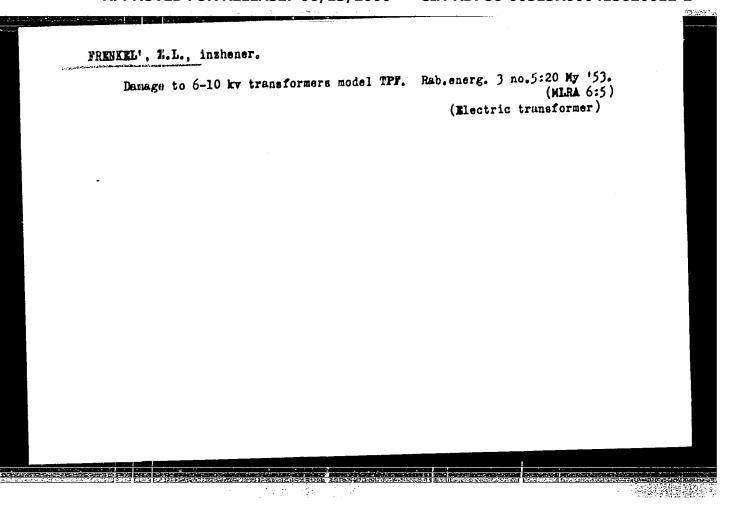
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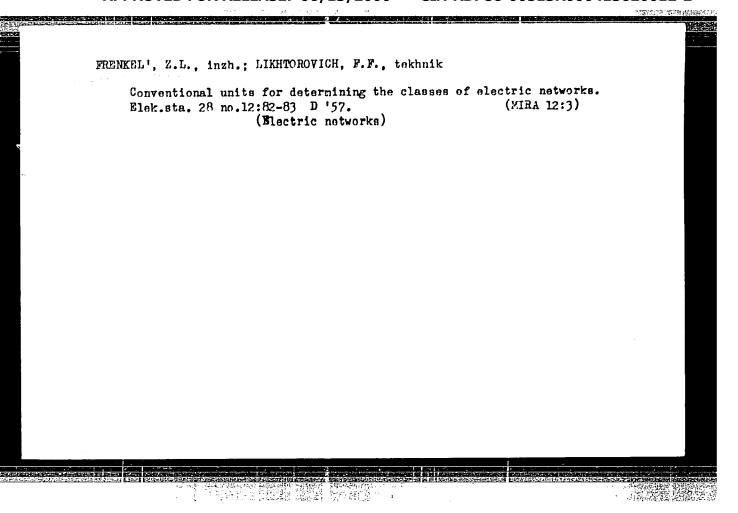
	SOURCE CODE: UR/0240/65/C00/002/0121/0122	(4)
	REVIEWER: Frankel, Z.G. (Professor; Active member AMN SSSR); SOUCTOVA, 1000	
	ORG: none TITLE: Review of book by B. Ts. Urlanis entitled 'Birth Rate and Life Expectancy in the USSR' (Rozhdayemost' i prodolzhitel nost' zhizni v SSSR), TaSU SSSR, Moscow,	
	Source. Gigivena i sanitariya, no. 2, 170), 122	3
	ABSTRACT: In the preface of the book, the author discusses the socialist law of population, as distinguished from the law of population under capitalism. And indeed, in the socialist transpopulation under capitalism. And indeed, in the socialist transformation of society, especially in the initial period, the morformation of society, especially in the birth rate. But with the tality index does drop faster than the birth rate. But with the more active participation of women in the work of society the more active participation of women in the work of society the birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from 35-45 to 17-22 birth rate will not increase but should drop from	
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Frankian, Akam		
	Frenkian, Aram. Etudes de mathé akkadiennes, egyptiennes et gree "C. I. Parhon Delatein Busure 2 (1953) no. 2 (1953)	matiques summéro-
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FRENKIAN, A.

Studies of Sumero-Akkadtan, Egyptian, and Greek mathematics. I. In French.

P. 17 (REVISTA DE CHIMIE) (Bucuresti, Rumania) Vol. 1, no. 1. 1997

50: Monthly Index of East European Accessions (FEAI) IC Vol. 7, No. 5 1959

KOWALCZYK, Hanna; FRENKIEL, Stanislaw; HARAZDA, Maria

Effect of chemotherapy on morphological and bacteriological pulmonary changes in resected pulmonary tissues. Gruzlica 30 no.4:341-348 162.

1. Z Kliniki Chirurgii Klatki Piersiowej Studium Doskonalenia Lekarzy w Zakopanem Kierownik: prof. dr med. W. Rzepecki.

(TUBERCULOSIS PULMONARY pathol)
(ANTITUBERCULAR AGENTS ther)

Approximate equations for the scattering of pions on nucleons.

Nauch. dokl. vys. skoly; fiz.-mat. nauki no.1:71-79 '58.

(MIRA 12:3)

1.Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.

(Mesons--Scattering) (Nucleons)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620012-2

21(1),24(7) AUTHORS:

Kukin, V.D., Solov'yev, L.D., and Frenkin, A.R. SOV/155-58-3-31/37

TITLE:

Approximate Equations for Virtual Photoproduction (Priblizhennyye

uravneniya dlya virtual'nogo fotorozhdeniya)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki,

1958, Nr 3, pp 169-177 (USSR)

ABSTRACT:

In the paper of Logunov and Solov'yev Ref 1 7 the dispersion of an electron at a nucleon with the production of a π -meson $(N+e \rightarrow N+e+\overline{K})$ is considered. In the lowest approximation (with respect to e) it concerns the emission of a virtual photon the interaction of which with the nucleon leads to the production of the meson. In Ref 1 T this kind of interaction is denoted as a virtual photoproduction. Dispersion relations for the amplitude of the process are obtained in / Ref 1. In the present paper, by phase investigations the authors obtain approximate equations from these relations. At first the dispersion relations in the system of the center of mass are written. Here especially the region of small energies and the S- and P-meson waves are considered (m-to in the dispersion relations). The restriction to finitely many waves permits (as in the case of real photoproduction) partially to overcome the difficulties combined with

Card 1/2

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620012-2

Approximate Equations for Virtual Photoproduction SOV/155-58-3-31/37

the non-observable region cos 9<-1. In the obtained equations for S- and P-waves there appear additional terms (in comparison with the analogous equations for real photoproduction) which make allowance for the considered meson production. Finally it is shown that the amplitude of the virtual photoproduction is combined with the phases of the meson-nucleon-dispersion just so as the amplitude of the real photoproduction. The authors thank A.A.Logunov.

There are 5 references, 2 of which are Soviet, and 3 American.

ASSOCAITION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov)

SUBMITTED: April 1, 1958

Card 2/2

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620012-2

FREDRIC A. A. and FRENKIN, A. R.

"On the Dispersion Relations for the Compton Effect." Nuclear Physics, Vol. 7, No. 6, p. 573--578 (No. Holland Publ. Co.) 1958.

Abstract: A basis underlying the deduction of the dispersion relations for the Compton Effect on nucleons in the absence of an unobservable energy region is presented.

Joint Inst. of Nuclear Research, Laboratory of Theoretical Physics, Dubna, USSR.

XUKIN, V.D.; FRENKIN, A.R.

Spurious states and the crossing symmetry condition. Dokl.
AN SSSR 133 no.1:49-51 J1 '60. (MIRA 13:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.
Lomonosova. Predstavleno akademikom N.N.Bogolyubovym.

(Particles (Muclear physics))

(Mathematical physics)

Construction of the scattering matr' in nonlocal theories.
Dokl. AN SSSR 139 no.5:1089-1092 Ag '61. (HIRA 14:8)

1. Moskovskiy gosudarstvonnyy universitet im. M.V. Lomonosova.
Predstavleno akademikom N.N. Bogolyubovym.
(Matrices) (Scattering (Physics)) (Operators (Mathematics))

S/020/62/146/004/007/015 B104/B102

24,4430

AUTHOR:

Frenkin, A. R.

TITLE:

Green's functions in the theory of the strong couplings

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 146, no. 4, 1962, 805 - 807

TEXT: Study of the stronginteraction occurring between a point nucleon and a charged-meson field reveals a logarithmic divergence of the renormalized coupling constants. It is suspected that this divergence is related to a rotational degeneracy of the system in the isotopic space. This charge degeneracy could be removed by a proper choice of the Hamiltonian. Proceeding from the Hamiltonian

(1) $\mathcal{H} = \sum \omega_{h} (b_{h+}^{+} b_{h+} + b_{h-}^{+} b_{h-}) - g (Q\tau + \tau^{+}Q^{+}) + v (Q - Q^{+})^{2},$

 $Q = \sum_{(h)} \frac{\lambda_h}{\sqrt{2\omega_h}} (b_{h^+} + b_{h^-}^+); \quad Q^+ = \sum_{(h)} \frac{\lambda_h}{\sqrt{2\omega_h}} (b_{h^-} + b_{h^+}^+);$ ˈ(2)

of a system of charged mesons interacting with an infinitely heavy nucleon, the rotational degeneracy can be removed because the total charge

Card 1/5

S/02C/62/146/004/007/015 B104/B102

Green's functions in the theory ...

of the system is expressible by an integral of motion and by adding $\gamma(Q-Q^+)^2$ to the usual Hamiltonian: if $\gamma\neq 0$, the Hamiltonian (1) is not invariant under the simultaneous substitution

$$b_{k+} \rightarrow e^{i\phi}b_{k+}; \quad b_{k-} \rightarrow e^{-i\phi}b_{k-}; \quad \tau \rightarrow \tau e^{-i\phi};$$

$$b_{k+}^{\dagger} \rightarrow e^{-i\phi}b_{k+}; \quad b_{k-}^{\dagger} \rightarrow e^{i\phi}b_{k-}^{\dagger}; \quad \tau^{\dagger} \rightarrow \tau^{\dagger}e^{i\phi},$$

$$b_{k+}^{\dagger} \rightarrow e^{-i\phi}b_{k+}; \quad b_{k-}^{\dagger} \rightarrow e^{i\phi}b_{k-}^{\dagger}; \quad \tau^{\dagger} \rightarrow \tau^{\dagger}e^{i\phi},$$

$$(4).$$

Thus, a finite renormalized meson charge is obtained for a point meson. The energy representation, according to N. N. Bogolyubov and S. V. Tyablikov (DAN, 126, 53 (1959)), gives:

$$E \langle \langle \tau \mid \tau^{+} \rangle \rangle = \frac{\langle \sigma \rangle}{2\pi} - g \langle \langle \sigma Q^{+} \mid \tau^{+} \rangle \rangle;$$

$$E \langle \langle \tau^{+} \mid \tau^{+} \rangle \rangle = g \langle \langle \sigma Q \mid \tau^{+} \rangle \rangle;$$

$$E \langle \langle \sigma \mid \tau^{+} \rangle \rangle = -\frac{\langle \tau^{+} \rangle}{\pi} - 2g \langle \langle \tau Q \mid \tau^{+} \rangle \rangle + 2g \langle \langle \tau^{+} Q^{+} \mid \tau^{+} \rangle \rangle.$$

$$(5).$$

Allowing for the fect that in main approximation $\langle \tau \rangle = \langle \tau^+ \rangle$ and $\langle \sigma \rangle = 0$, Card 2/5

(6).

S/020/62/146/004/007/015 B104/B102

Green's functions in the theory ...

Wick's theorem leads to

$$E\langle\langle\tau\mid\tau^{+}\rangle\rangle = -g\langle Q^{+}\rangle\langle\langle\sigma\mid\tau^{+}\rangle\rangle;$$

$$E\langle\langle \tau^{+}|\tau^{+}\rangle\rangle = g\langle Q\rangle\langle\langle \sigma|\tau^{+}\rangle\rangle;$$

$$E\langle\langle\langle\sigma\mid\tau^{+}\rangle\rangle\rangle = -\frac{\langle\tau\rangle}{\pi} - 2g\langle\tau\rangle\langle\langle\langle Q\mid\tau^{+}\rangle\rangle - 2g\langle\dot{Q}\rangle\langle\langle\langle\tau\mid\tau^{+}\rangle\rangle + 2g\langle\tau\rangle\langle\langle\langle Q^{+}\mid\tau^{+}\rangle\rangle + 2g\langle\langle Q^{+}\rangle\langle\langle\langle\tau^{+}\mid\tau^{+}\rangle\rangle.$$

The mean values $\langle Q \rangle$ and $\langle Q^{\dagger} \rangle$ are determined from the equation of motion for meson operators, and the mixed Green functions are represented as below by the Green nucleon functions

$$\langle\langle Q \mid \tau^{*} \rangle\rangle = \frac{gJ(E)}{1 - 4vJ(E)} \left((1 - 2vJ(E)) \left\langle \left\langle \tau^{+} \mid \tau^{+} \right\rangle \right\rangle - 2vJ(E) \left\langle \left\langle \tau \mid \tau^{+} \right\rangle \right\rangle; \quad (9)$$

$$\langle\langle Q^+ \mid \tau^+ \rangle\rangle = \frac{gJ(E)}{1 - 4vJ(E)} \left\{ -2vJ(E) \left\langle \left\langle \tau^+ \mid \tau^+ \right\rangle \right\rangle + \left(1 - 2vJ(E)\right) \left\langle \left\langle \tau \mid \tau^+ \right\rangle \right\rangle \right\},$$

$$J(E) = \sum_{k=1}^{\infty} \frac{\lambda_k^2}{\pi}$$

(10).

Card 3/5

(11)

S/020/62/146/004/007/015 B104/B102

Green's functions in the theory ...

Hence (6) gives

$$\langle \langle \tau \mid \tau^{+} \rangle \rangle = \frac{1}{\pi} \frac{g^{1} \langle \tau \rangle^{1}}{E^{1} - \frac{4g^{4} \langle \tau \rangle^{3} / 1}{1 - 4y / (E)} \Delta(E)}$$

$$\langle\langle\langle \tau^{+} \mid \tau^{+}\rangle\rangle = -\langle\langle\langle \tau \mid \tau^{+}\rangle\rangle;$$

$$\langle\langle \sigma \mid \tau^{\dagger} \rangle\rangle = -\frac{E}{\pi} \frac{\langle \tau \rangle}{E^{2} - \frac{4g^{4} \langle \tau \rangle^{4} I^{3}}{1 - 4vJ(E)} \Delta(E)},$$

$$\Delta(E) = 1 - 4\left(v + \frac{1}{4I}\right)J(E). \tag{12}$$

With the aid of the perturbation theory it is shown that in zeroth approximation with respect to powers of g⁻¹ the Hamiltonian

t to powers of
$$g^{-1}$$
 the Hamiltonian
$$\mathcal{H}^0 = \sum_{(k)} \omega k \left(b_{k}^{\dagger} + b_{k} + b_{k}^{\dagger} + b_{k}^{\dagger} - b_{k} - \right) + \left(\mathbf{v} + \frac{\mathbf{i}}{4I} \right) (Q - Q^{\dagger})^s \tag{16}$$

can be diagonalized and that all eigenvalues are $E_{\mu}^{0}\neq0$. Hence all three Green functions (11) have no poles if E=0, which means that the system investigated contains no degeneracies.

Card 4/5

S/020/62/146/004/007/015 B104/B102

Green's functions in the theory ...

ASSOCIATION: Moskovskiy gosudarstvennyyuniversitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED:

May 3, 1962, by N. N. Bogolyubov, Academician

SUBMITTED:

April 28, 1962

Card 5/5

41673

S/020/62/146/005/007/011 B125/B186

24 4400

AUTHORS:

Kukin, V. D., Frenkin, A. R.

TITLE:

A model in quantum field theory

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 146, no. 5, 1962, 1054-1057

TEXT: The critical value of the coupling constant for the occurrence of "phantom conditions" is shown to be $g_{crit} = 1/I_{(M)} > 0$. Systems with the Hamiltonian

$$\mathcal{H} = \sum_{(k)} \omega_{k} (b_{k}^{\dagger} b_{k} + \bar{b}_{k}^{\dagger} \bar{b}_{k}) + \sum_{(k)} (E_{k} - \delta M) a_{k}^{\dagger} a_{k} +$$

$$+ g_{0} \sum_{(k, p)} \sqrt{\frac{M}{E_{k+p}}} \frac{1}{\sqrt{4\omega_{k}\omega_{p}}} (a_{k+p}^{\dagger} b_{k} \bar{b}_{p} + b_{k}^{\dagger} \bar{b}_{p}^{\dagger} a_{k+p}) +$$

$$+ \lambda_{0} \sum_{(k, p, q)} \frac{1}{\sqrt{16\omega_{k}\omega_{p}\omega_{q}\omega_{k+p-q}}} \dot{b}_{k}^{\dagger} \bar{b}_{p}^{\dagger} b_{q} \bar{b}_{k+p-q},$$

$$(1),$$

 $E_k = \sqrt{k^2 + M^2}, \quad \omega_k = \sqrt{k^2 + \mu^2}, \quad M < 2\mu,$

Card 1/4

S/020/62/146/005/007/011 B125/B186

A model in quantum field theory

show no cross symmetry either in the terms proportional to g_0 or in the λ_0 terms. $a_{\vec{k}}^+$, $b_{\vec{k}}^+$, and $b_{\vec{k}}^+$ are the production operators, $a_{\vec{k}}$, $b_{\vec{k}}^+$, and $b_{\vec{k}}^+$ are the annihilation operators of the particles of types a_i , b_i , and b_i with the momentum \vec{k} . M and b_i M are the observable mass and the renormalization of the mass of the a-particle, μ is the observable mass of the b_i - and b_i -particles. The operators b_i and b_i .

$$N_{1} = \sum_{(k)} a_{k}^{\dagger} a_{k} + \sum_{(k)} b_{k}^{\dagger} b_{k},$$

$$N_{2} = \sum_{(k)} a_{k}^{\dagger} a_{k} + \sum_{(k)} \bar{b}_{k}^{\dagger} \bar{b}_{k}$$
(3)

are constants of motion. The scattering amplitude

$$T_{(E)} = \frac{\frac{g^2}{E - M} + \lambda}{1 + (E - M) \sum_{(k)} \frac{1}{(2\omega_k)^2} \frac{1}{(2\omega_k - M)(2\omega_k - E)} \left[\frac{g^2}{2\omega_k - M} + \lambda \right]}$$
 (16)

with B = 1 - $g^2I_{(M)}$, the mass renormalization $\delta H = -g_0L_{(M)}/(1+\lambda_0L_{(M)})$, and Card 2/4

S/020/62/146/005/007/011 B125/B186

A model in quantum field theory.

the renormalized charges $1/g^2=(\Lambda^2/g_0^2)+I_{(M)}$ and $\lambda=B\lambda_0/\Lambda$ are found for the sector $N_1=1$, $N_2=1$. For $E\to -\infty$, $T_{(E)}$ goes to the finite limit λ_0 . The point $E_0=M-(g^2/\lambda)$ corresponds to the bare mass of the a-particle. The disappearance of the charges g and λ corresponds to the double disturbance of the cross symmetry. The Hamiltonian (1) with $\lambda_0=0$ (Lee model of bosons) gives the scattering amplitude

$$T_{(E)} = \frac{g_0^2}{E - M + \delta M + g_0^2 L_{(E)}} \tag{18}$$

The logarithmic divergence of this scattering amplitude is compensated by a proper choice of the mass renormalization. The scattering amplitude expressed by the renormalized charge,

$$T_{(E)} = \frac{g^2}{(E-M)\left\{1 + g^2(E-M)\sum_{(k)} \frac{1}{(2\omega_k)^2} \frac{1}{((2\omega_k - 1M)^2(2\omega_k - E))}\right\}}$$
(22),

determines the phase of the S-wave for any g2. The present model differs Card 3/4

5/020/62/146/005/007/011 B125/B186

A model in quantum field theory.

essentially from the Lee model with a fixed source.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED:

May 28, 1962, by N. N. Bogolyubov, Academician

SUBMITTED:

May 23, 1962

Card 4/4

8/020/63/148/005/014/029 B102/B186

AUTHOR

Frenkin, A. R._

TITLE:

Determination of the isobaric state in models with a fixed

nucleon

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 5, 1963, 1060 - 1063

TEXT: The isobaric state of a system containing a fixed nucleon which interacts strongly with charged mesons is investigated. The system is described by the Hamiltonian $\mathcal{H} = \sum \omega_{k} (b_{k}^{\dagger}, b_{k+} + b_{k}^{\dagger} - b_{k-}) - g(Q\tau + \tau^{\dagger}Q^{\dagger}), \tag{1}$

Hamiltonian $\mathcal{H} = \sum_{(k)} \omega_k (b_{k+}^{\dagger}, b_{k+} + b_{k-}^{\dagger}, b_{k-}) - g(Q\tau + \tau^{\dagger}Q^{\dagger}),$ (1) $Q = \sum_{(k)} u_k (b_{k+} + b_{k-}^{\dagger}), \quad Q^{\dagger} = \sum_{(k)} u_k (b_{k-} + b_{k+}^{\dagger}), \quad u_k = \frac{\lambda_k}{\sqrt{2\omega_k}}$ (2)

where \hat{t} , \hat{t} are the nucleon-charge production and annihilation operators; \hat{b}_{k}^{+} (\hat{b}_{k}^{-}) and \hat{b}_{k}^{-} (\hat{b}_{k}^{-}) are the production (annihilation) operators of positive and negative mesons of momentum k; $\hat{\lambda}_{k} = \hat{\lambda}_{k}^{*} = \hat{\lambda}(k^{2})$ is the nucleon form factor, $\hat{\lambda}_{k} \to 0$ for $k^{2} \to \infty$; the coupling constant $\hat{g} > 1$ and $\hat{t}\hat{t}^{+} + \hat{t}^{+}\hat{t}^{-} = 1$. The Hamiltonian (1) (cf. for example. H. Nickle, R. Serber, Phys. Rev. 119, 449, Card 1/4

S/020/63/148/005/014/029 B102/B186

Determination of the isobaric ...

1960) is rewritten as $\mathcal{H} = \sum_{(k)} \omega_{k+} b_{k+}^{+} b_{k+} + \sum_{(k)} \omega_{k-} b_{k-}^{+} b_{k-} - g (Q\tau + \tau^{+}Q^{+}) + \Omega (q - \tau\tau^{+}),$

 $\omega_{k\pm}=\omega_{k}\mp\Omega$,

charge conservation being described by $q = \sum_{(k)} \langle b_{k+}^+ b_{k+} \rangle - \sum_{(k)} \langle b_{k-}^+ b_{k-} \rangle + \langle \tau \tau^+ \rangle$.

(4).

From the Heisenberg kinetic equations of the operators the following equalities are obtained for the boson and fermion operators:

 $\langle b_{k+} \rangle = \frac{gu_k}{\omega_{k+}} \langle \tau^+ \rangle, \quad \langle b_{k-} \rangle = \frac{gu_k}{\omega_{k-}} \langle \tau \rangle,$ $\langle b_{k+}^+ \rangle = \frac{gu_k}{\omega_{k+}} \langle \tau \rangle, \quad \langle b_{k-}^+ \rangle = \frac{gu_k}{\omega_{k-}} \langle \tau^+ \rangle.$ (5).

If, therefore, the new operators

$$b_{k+} = \langle b_{k+} \rangle + a_{k+}, \quad b_{k-} = \langle b_{k-} \rangle + a_{k-}, \\ b_{k-}^* = \langle b_{k-}^* \rangle + a_{k-}^*, \quad b_{k-}^* = \langle b_{k-}^* \rangle + a_{k-}^*,$$

(6) with

 $\langle a_{k+}\rangle = \langle a_{k-}\rangle = \langle a_{k+}^{+}\rangle = \langle a_{k-}^{+}\rangle = 0$, (7) are introduced, the component \mathcal{H}_{0} of the

S/020/63/148/005/014/029 B102/B186

Determination of the isobaric ...

Hamiltonian $\mathcal{H} = \mathcal{H}_1 + \mathcal{H}_1$ can be written in terms of $I(\Omega) = \frac{\sum_{i} \lambda_i^2}{(k^2)^2} (\omega_k^2 - \zeta)^2$.

This main component characterizes the energy of the system:

 $E_0 = \langle \mathcal{H}_0 \rangle = -g^2 I(\Omega) \langle \tau \rangle \langle \tau^{\dagger} \rangle + \Omega (q - \langle \tau \tau^{\dagger} \rangle).$ (10). In the same approximation one has $q = 2g^2 \langle \tau \rangle \langle \tau^{\dagger} \rangle F(\Omega) T + \langle \tau^{\dagger} \rangle$ where $F(\Omega) = \frac{\sum_{i=1}^{n} \lambda_k^2 / (\omega_k^2 - f^2)^2$. If the

fermion operators in the expressions for $\mathbf{E}_{\mathbf{0}}$ and \mathbf{q} are determined in perturbation-theoretical approximation, one obtains

 $E_0 = -g_r^2 I(\Omega) + \Omega(q - \frac{1}{2}), \quad q = 2g_r^2 F(\Omega) \Omega + \frac{1}{2}. \quad (20), \text{ where } g_r = g < \epsilon \rangle \quad \text{and } \langle f f^{\dagger} \rangle$ $= 1/2. \quad \text{Eliminating } I_l, \quad E_0(q) = -g_r^2 I(0) + \frac{g_r^2 \mu}{4\pi} \left(\sqrt{1 - \left[\frac{4\pi (q - \frac{1}{2})}{g_r^2} \right]^2} - 1 \right) \quad (21) \text{ is}$

obtained; ... denotes the meson mass. If $E_0(q)$ is expanded, one has

 $I_0(q) = -g_r^4 I(0) + \frac{2\pi\mu}{g_r^2} \left(q - \frac{1}{2}\right)^2$ (22) in second approximation. If the form Card 3/4

S/020/63/148/005/014/029 B102/B186

Dotermination of the isobaric ...

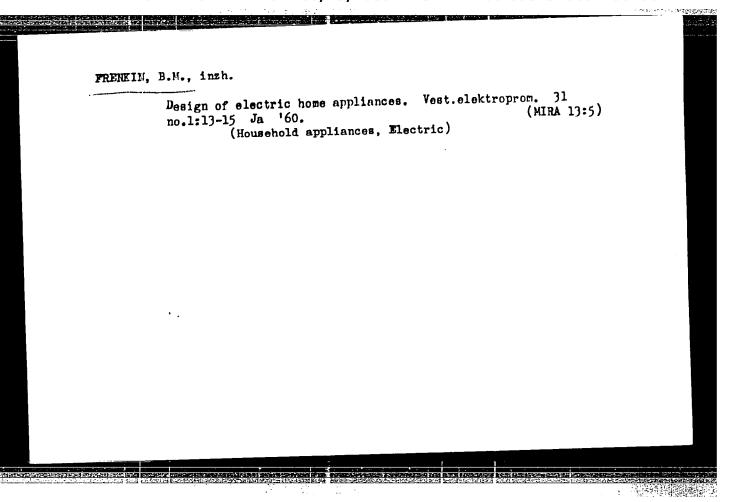
factor $\lambda_k \neq 1$ one has $E_0(q) = -g_T^2 I(0) + (q-1/2)^2/4g_T^2 F(0)$. The isobaric energy $\Delta E_q = E_0(q) - E_0(1/2)$ is obtained as $\Delta E_q = J\Omega^2/2$, where $J = 2g_T^2 F(0)$ is the isotopic moment of inertia.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University im. M. V. Lomonosov)

P. ESENTED: August 29, 1962 by N. N. Bogolyubov, Academician

SUBMITTED: August 6, 1962

Card 4/4



S/062/60/000/008/011/012 B004/B054

AUTHORS: Frenkin, E. I., Prokhorova, A. A., Paushkin, Ya. M., and

Topchiyev, A. V.

TITLE: Production of Dibromo-phenyl Boron by Direct Synthesis

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1960, No. 8, pp. 1507-1508

TEXT: The authors conducted the synthesis according to the following equation:

 $c_{6}H_{6} + B + 1\frac{1}{2}Br_{2} \xrightarrow{\text{Ni}} c_{6}H_{5}BBr_{2} + HBr.$

Out of a Balandin burette, benzene and bromine in a purified nitrogen current were led into a quartz tube (length 600 mm, diameter 22 mm) which was filled with 75% of powdered boron and 25% of nickel on kieselguhr. The reaction temperature was 500 - 520°C. The reaction products were collected in vessels cooled with dry ice. The yield in dibromo-phenyl boron was 21%. Due to side reactions, also BBr₃, C₆H₅Br, C₆H₄Br₂, and traces of bromo-diphenyl boron were found. Dibromo-phenyl boron is a colorless liquid

Card 1/2

Production of Dibromo-phenyl Boron by Direct Synthesis

S/062/60/000/008/011/012 B004/B054

fuming in air; boiling point 89-91°C at 14 torr, melting point 32-34°C. Am nalyses and physical data of the reaction products are listed in a table. There are 1 table and 2 non-Soviet references.

ASSOCIATION:

Institut neftekhimicheskogo sinteza Akademii nauk SSSR (Institute of Petroleum-chemical Synthesis of the Academy

of Sciences, USSR)

SUBMITTED:

January 5, 1960

Card 2/2

TOPCHIYEV, A.V., akademik; PAUSHKIN, Ya.M.; PROKHOROVA, A.A.; FRENKIN,
E.I.; KURASHEV, M.V.

Studies in the field of boron compounds. New derivatives of triallylborane. Dokl.AN SSSR 134 no.2:364-367 \$ '60.

(MIRA 13:9)

1. Institut neftekhimicheskogo sinteza Akademii nauk SSSR.

(Boron compounds)

FRENKIN, E.I.; PRIKHOROVA, A.A.; PAUSHKIN, Ya.M.; TOPCHIYEV, A.V.

Preparation of phenylboron dibromide by direct synthesis. Izv.

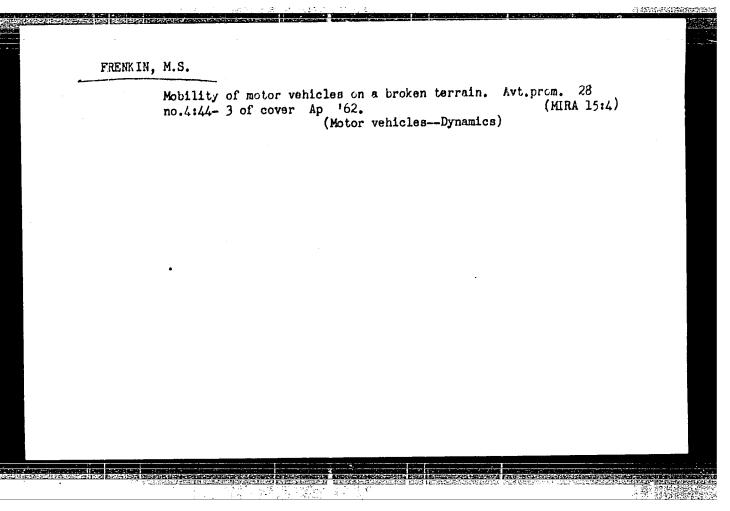
AN SSSR Otd.khim.nauk no.8:1507-1508 Ag 160. (MIRA 15:5)

1. Institut neftekhimicheskogo sinteza AN SSSR. (Boron organic compounds)

FRENKIE, M.M.; FINEVICH, G.V., nauchn. red.

THE REAL PROPERTY OF THE PROPE

[Special purpose refrigerating machinery and air conditioning plants and systems for their regulation]
Kholodil'nye mashiny i ustanovki konditsionirovanita
vozdukha spetsial'nogo naznachenita i sistemy ikh regulirovanita. Moskva, TSentr. nauchno-issl. in-t patentnoi informatsii i tekhniko-ekonomicheskikh issl. 1964. 26
26 p. (MIRA 18:5)



- 1. VOLKOV, G.; FRENKIN, V.
- 2. USSR (600)
- 4. Cotton Machinery
- 7. How to use cotton-picking machinery with maximum efficiency. Khlopkovodstvo no. 7, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

- 1. FRENKIN. V., ENG.; DERPAREMDIKER, D.
- 2. USSR (600)
- 4. Cotton-Picking Machinery
- 7. Mechanizing the cotton harvest. MTS 12 no. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

FERSHTAT, Neum Il'ich, sealushennyy mekhanizator Usbekskoy SNR; FRENKIN.

Yladimir Mikhaylovich, sealushennyy mekhanizator Uzbekskoy SNR;
GRUSHIN, A., rede, abbasov, T., tekhred.

[Over-all mechanization of cotton-growing in Uzbekistan]

Komplekanais mekhanizatiia khlopkovodstva v Uzbekistane.

Tashkont, Gos. yed-vo Uzbekskoi SSR, 1960. 63 p.

(Usbekistan--Gotton growing) (Farm mechanization)

(Usbekistan--Gotton growing) (Farm mechanization)

SOKOLOV, F.A., kand. sel'khoz. nauk; KOKUYEV, V.I., kand. sel'khoz. nauk; SHAFRIN, A.H., zasl.agr.Uzb.SSR; KONDRATYUK, V.P.,
kand. sel'khoz. nauk; MALINKIN, N.P., doktor sel'khoz.
nauk; YEREMENKO, V.Ye., doktor sel'khoz. nauk [deceased];
MEDNIS, M.P., kand.biol. nauk; FILIPPENKO, G.I., kand.
sel'khoz. nauk; USPENSKIY, F.M., kand. biol. nauk;
SOLOV'YEVA, A.I., kand. sel'khoz. nauk; PRUGALOV, A.M.,
kand.sol'khoz. nauk [deceased]; ZAKIROV, T.S., kand.
sel'khoz. nauk; FREEKIN, V.M., zasl. mekhanizator UzSSR;
GORELIK, I.M., red.; ABBASOV, T., tekhn. red.

[Cultivation practices in cotton growing] Agrotekhnika khlopchatnika. Tashkent, Gos.izd-vo UzSSR, 1963. 326 p. (MIRA 17:1)

(Uzbekistan--Cotton growing)

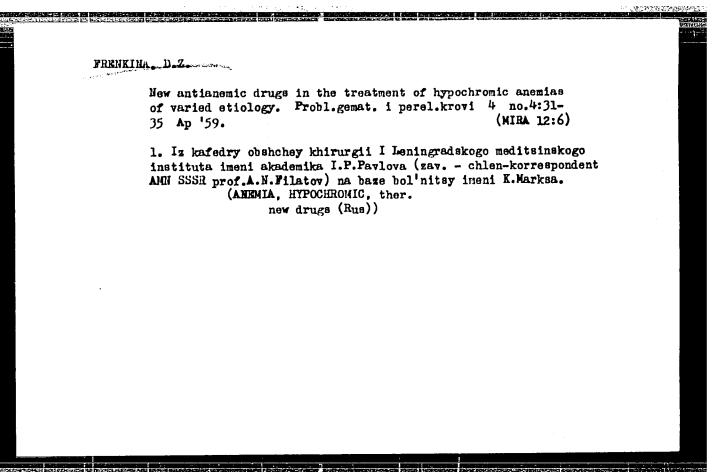
FRENKING, DZ.

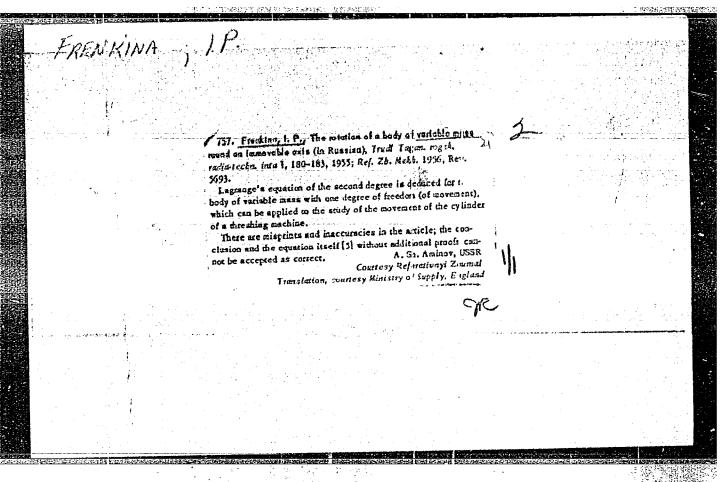
LAVROV, V.V.; ARKHANGHL'SKAYA-LEVINA, M.S.; FEDOROV, D.H.; IOSSET, G.Ya.;

SOSMYAKOV, N.G.; BERINGER, Yu.V.; KOZACHINSKIY, R.M.; YELETSKAYA,
O.I.; GOSHKINA, A.I.; MIKIASHEVSKAYA, A.V.; ZYKOV, A.A.; LEBEDEY,
M.F.; DERGUNOVA, K.S.; RYTSK, Z.A.; FRENKINA, D.Z.; TSIVIN, S.S.

In memory of A.M.Zabludovskii. Khirurgiia no.12:74-75 D '53.

(Zabludovskii, Anton Martynovich, 1880-1953)





FRENKINA, I.P. (Hoskva); KHARITOROVA, A.N. (Mockve)

Propagation of clastic waves in a stepped row with concentrated masses. Inzh. zhur. 5 no.4:705-710 '65. (HTMA 18:9)

Type grouping of dysentery bacilli and their sensitivity to sulfanilamides and synthomycin. Thur. mikrobiol. epid. i immun. no.6:66 Je '54. (MLRA 7:7)

1. Is kliniki infektsionnykh bolezney Samarkandskogo meditsinskogo instituta im. Pavlova i l-y infektsionnoy bol'nitsy. (SHIGHIJA PARADYSENTERIAE) (SULFANILAMIDE) (CHLORAMPHENICOL)

INGAK. VA, "K. M.

USSR/Microbiology - Antibiosis and Symbiosis. Antibiotics

F-2

Abs Jour

: Referat Zhurn - Biol. 25 Aug 1957, 68459

Author

: Egorova, N.B., Frenkina, R.A.

Title

: Typing Dysentery Bacilli and Their Sensitivity to

Sulfamides and Syntomycin.

Orig Pub

: Sb. Nauch. Tr. Samarkandsk. Med. In-t, 1956, 9, 66-69

Abstract

: Determination of serum types of 100 dysentery strains was conducted. Analyzing the cause of frequently observed group agglutination and comparing our data with the results of Hilden's experiments, the authors come to the conclusion that the receptor apparatus of dysentery microbes did not change significantly from 1934 to 1952, and also that in the majority of strains (84%) there are several receptors in one culture. There also are the results of a study made in 1951-1952 on the sensitivity of 140 dysentery strains to sulfamides and 80 strains of the Flexner group to syntomycin.

Card 1/1

- 24 -

USSR / General Problems of Pathology. Immunity.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102400.

Author : Yegorova, N. B.; Frenkina, R. A.

Inst: Not given.
Title: The Influence of Synthomycin on the Immunologic

Processes in the Organism.

Orig Pub: Med. zh. Uzbekistana, 1957, No 12, 10-15.

Abstract: Rabbits, immunized by triple intravenous introduction of vaccine containing the antigens of byphoid fever, paratyphoid fever B, Flexner's dysentery and Sonne dysentery, received synthomycin (I), 50 mg/kg each, in the course of 10 days. Differences in the antibody titer (AT) and activity of phagocytosis in experimental (3) and control rabbits (3) were not noted even after revaccination and increase of the I dose to 150 mg/kg. Probably, the

Card 1/2

18

- USSR / General Problem 56/13/2006 ogy CIA RDP86+00513R000413620012-2"

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102400;

Abstract: inhibition of antibody formation under the influence of I noted by some authors', may be explained by the weakening of antigenic properties of microorganisms.

FRENKTIIA, R.A.

Bacteriological diagnosis of dysentery by Rapport's dish method. Lab.delo 4 no.6:39-41 N-D 158 (MIRA 11:12)

1. Iz laboratorii klinicheskoy infektsionnoy bolinitsy Samarkanda . (SHIGELLA PARADYSENTERIAE)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620012-2"

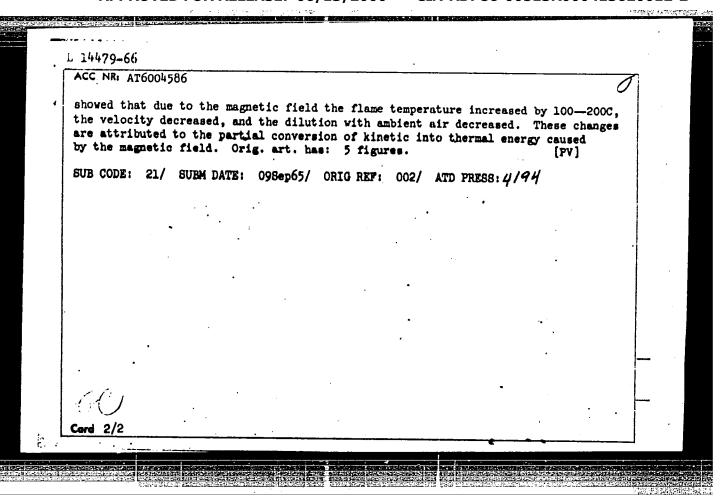
YEGOROVA, N.B.: FRENKIKA, R.A.

Sensitivity of dysentery and typhoid-paratyphoid pathogens to some antibiotics and their combinations. Zhur.mikrobiol. epid. 1 immin. 30 no.5:143-144 My 159. (MIRA 12:9)

1. Iz Samarkandskogo meditsinskogo instituta.
(ANTIBIOTICS) (RACTERIA, EFFECT OF DRUGS ON)

一种类型

L 14479-66 EWT(1)/EWT(m)/T IJP(c) WW/JW/JWD/WE/GS ACC NR. AT6004586 SOURCE CODE: UR/0000/65/000/000/0106/0111 AUTHOR: Alekseyev, A. M.; Kantorovich, B. V. (Doctor of technical sciences; Professor); Colovina, G. S.; Ivanov, V. M.; Pitin, R. N.; Ponnik, Yu. A.; Frenkina, Z. I.; Cheredkova, K. I. ORG: none 21. 11/15 5 TITLE: Study of the effect of a magnetic field on a stream of burning fuel SOURCE: AN SSSR. Institut goryuchikh iskopayemykh. Novyye metody szhiganiya topliv i voprosy teorii goreniya (New methods in the combustion of fuels and problems in the theory of combustion). Moscow, Izd-vo Nauka, 1965, 106-111. TOPIC TAGS: combustion, propulsion, magnetic field, gas combustion ABSTRACT: It has been previously shown that the shape of a flame can be substantially changed and the burning velocity/can be increased by the application of a magnetic field. Therefore, the use of a magnetic field to intensify combustion processes is considered in the present study, by determining the effect of a magnetic field on a burning CH4-oxygen|jet issuing from a combustion chamber through a 19.5 x 9.4 mm nozzle into air. Two cooled poles of a magnet 120 mm long were placed 15 mm from the nozzle outlet to generate a magnetic induction of 16 kgs in the 10-mm-wide gap through which the jet passed. The velocity of the gas jet was close to sonic. Measurements were made of the velocity, the flame temperature, and concentrations along the axis in the presence and absence of the magnetic field. The results Card 1/2



S/137/62/000/001/020/237 A060/A101

AUTHORS:

Rossovskiy, S. N., Frenkina, Ts. B., Girdasova, Z. M.

TITLE:

Testing of carbonatite pyrochlore ores for their ability to be

concentrated

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 8, abstract 1960

("Tr. Tsentr. n.-1. gornorazved. in-ta", 1960, no. 39, 35-37)

The principal useful component in the samples is Nb, concentrated in TEXT: the pyrochlore. The Nb205 concentration is equal to 0.1%. The grain size of the pyrochlore is 0.5 - 0.053 mm. As a method for primary concentrating it is recommended to use roasting of the original ore with subsequent quenching it in water and wasning off the finely dispersed slimes of Ca(OH)2 and Mg(OH)2 thus formed. The sandy portion remaining after this processing represents a product enriched in Nb205 and P205, which may be subjected to further concentration on a concentrating table by magnetic separation or by flotation, depending on the assay.

A. Shmeleva

. [Abstracter's note: Complete translation]

Card 1/1

s/137/62/000/005/023/150 A006/A101

AUTHORS:

Rossovskiy, S. N., Frenkina, Ts. B., Girdasova, Z. M.

TITLE:

Concentration of carbonatite pyrochlorous ores

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 8-9, abstract 5649 ("Sb. materialov po gorn. delu, obogashcheniyu i metallurgii. Tsentr.

n.-i. gornorazved. in-t", 1961, no. 6, 49-54)

The basic effective component is Nb, concentrated in pyrochlore. TEXT: The content of Nb_2O_5 in the initial ore is 0.1%, dissemination is 0.5 - 0.003 mm, basically 0.01 - 0.003 mm. The gravitation methods of concentrating this material did not yield positive results; flotation is made difficult by the presence of great amounts of carbonate and apatite, which are more flotationactive in an alkaline medium than pyrochlore. Reverse flotation is poorly effective. Ore roasting with subsequent extinction in water and washing of lime slurries is an effective operation of initial concentration and makes it possible to obtain sand products with a content and extraction of Nb205 which are for sample 1 and 2 (in %) 0.48 and 85.4, and 0.74 and 88.5 respectively of the initial ore. Sands of sample no. 2 were subjected to concentration on a table

Card 1/2

Concentration of carbonatite pyrochlorous ores

S/137/62/000/005/023/150 A006/A101 .

and magnetic separation; subsequently the non-magnetic fraction was flotated with Na oleate. As a result crude concentrate was obtained, containing 5.19% of the crude concentrate; subsequently pyrochloric acids were obtained with conditional Nb_2O_5 content (37-53.5%).

A. Shmeleva

[Abstracter's note: Complete translation]

Card 2/2

S/846/62/019/000/007/008 E071/E151

AUTHORS :

Alekseyev, A.M., Ivanov, V.M., and Frenkina, Z.I.

TITLE:

Investigation of combustion of gaseous fuel with the simultaneous evaporation of sprayed water in a steam-

gas generator

SOURCE:

Akademiya nauk SSSR. Institut goryuchikh iskopayemykh. Trudy. v.19. 1962. Novyye metody szhiganiya topliv i

voprosy teorii goreniya. 66-94

TEXT: One of the newest methods of fuel and heat utilisation in thermal power stations is the steam-gas cycle, based on the combustion of liquid or gaseous fuel and evaporation of sprayed water in the same space. This complex process allows a sharp increase in the intensity of combustion and of heat exchange and is a most economical method for the production of the working medium for steam-gas turbines of large power generating installations. The use of natural gas for this purpose was investigated on a laboratory installation in which the observation of the whole process from the introduction of the reacting substances to the outgoing of the working medium (steam-gas) was possible. Card 1/2

Investigation of combustion of ... 5/846/62/019/000/007/008 E071/E151

The apparatus and experimental procedure are described. advantages of this application of gaseous fuel are discussed. optimum conditions for combustion of gaseous fuel in steam-gas installations were experimentally established, namely; in a swirling stream with premixing and without any thermal stabilisation of the combustion process. It was shown that the best conditions for combustion and evaporation in a common space depend on: the temperature and the excess of combustion air, the efficiency of the mixing of the gaseous fuel and air, the pressure in the combustion chamber, the velocity of the air-gas mixture flowing from the burner, the fineness of the water spray, and the temperature of the water introduced into the stream of hot combustion products. The main conditions for production of steamgas at a pressure of 5 atm.abs. were determined. Some applications of the principle in the chemical industry, e.g. for concentrating salt solutions, are briefly discussed. There are 16 figures and 6 tables.

Card 2/2

IVANOV, V.M.; FRENKINA, Z.I.

Aerodynamic investigations using a laboratory model simulating the motion of gas flow in a steam and gas producer. Trudy IGI 19:104-113 '62. (Gas flow) (Gas producers)

(Gas flow) (Gas producers)

IVANOV, V.M., kand. tekhn. neuk; ALEKSEYEV, A.M., inwh., FRENKINA, Z.I., inzh.

Combustion of gaseous fuel under high pressure in the presence of water and other inert media. Teploenergetika 11 no.33 12-18 Mr 164. (MERA 17:6)

1. Institut goryuchikh iskopayemykh.

2.

L 16070-66 EWT(1)/EWT(m)/ETC(f)/EPF(n)-2/EWG(m)/EWA(d)/T/EWP(k)AT6004589 WW/JW/GG/WE/GS SOURCE CODE: UR/0000/65/000/000/0146/0161 AUTHOR: Ivanov, V. M.; Frenkina, Z. I. ORG: none TITLE: Combustion processes and heat transfer in the combustion of liquid fue SOURCE: AN SSSR. Institut goryuchikh iskopayemykh. Nevyye metody szhiganiya topliv 1 voprosy teorii goreniya (New methods in the combustion of fuels and problems in the theory of combustion). Moscow, Izd-vo Nauka, 1965, 146-161 TOPIC TAGS: combustion, liquid fuel combustion, heat transfer ABSTRACT: As a part of the program of comprehensive studies of combustion and heat transfer at high pressures, an experimental investigation was made of diesel fuel combustion under 8 atm of air and up to 50 atm of oxygen-steam. The experiments were conducted in two combustion chambers with diameters of 0.22 and 0.32 and lengths of 1.65 and 2 m. The length of the combustion zone was determined and tengths or 1.00 and 2 m. the tength of the computation come was determined as a function of the air excess factor and pressure. A previously derived formula as a function of the arr excess factor and pressure. A previously delived for calculating the length of the combustion zone as a function of the air excess

Card 1/2

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